CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/817,198A

ENTERED

CRF Processing Date: 7/31/2002
Edited by: _____
Verified by: _____ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically: _____
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____ .

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included: _____
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
_____

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically: _____
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically: _____
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☑ Other: globally deleted format markers and inserted hard return
_____
_____

RECEIVED

AUG 06 2002

TECH CENTER 1600/2900

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/817,198A

DATE: 07/31/2002

TIME: 18:54:19

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07312002\I817198A.raw

```
 4 <110> APPLICANT: YE, Jane et al.
 6 <120> TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
 7       NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
 8       PROTEINS, AND USES THEREOF
10 <130> FILE REFERENCE: CL001188
12 <140> CURRENT APPLICATION NUMBER: 09/817,198A
13 <141> CURRENT FILING DATE: 2001-03-27
15 <160> NUMBER OF SEQ ID NOS: 33
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 3257
21 <212> TYPE: DNA
22 <213> ORGANISM: Human
24 <400> SEQUENCE: 1
25 tgcccgctgc ccgcccgcag ttcccggccc cgctggcccc agtcatggcg aagcagtacg 60
26 atgtgctgtt ccggctgctg ctgatcgggg actccggggt gggcaagacc tgcctgctgt 120
27 gccgcttcac cgacaacgag ttccactcct cgcacatctc caccatcggt gttgacttta 180
28 agatgaagac catagaggta gacggcatca aagtgcggat acagatctgg gacactgcag 240
29 ggcaggagag ataccagacc atcacaaagc agtactatcg gcgggcccag gggatatttt 300
30 tggtctatga cattagcagc gagcgctctt accagcacat catgaagtgg gtcagtgacg 360
31 tggatgagta cgcaccagaa ggcgtccaga agatccttat tgggaataag gctgatgagg 420
32 agcagaaacg gcaggtggga agagagcaag ggcagcagct ggcgaaggag tatggcatgg 480
33 acttctatga aacaagtgcc tgcaccaacc tcaacattaa agagtcattc acgcgtctga 540
34 cagagctggt gctgcaggcc cataggaagg agctggaagg cctccggatg cgtgccagca 600
35 atgagttggc actggcagag ctggaggagg aggagggcaa acccgagggc ccagcgaact 660
36 cttcgaaaac ctgctggtgc tgagtcctgt gtggggcacc ccacacgaca cccctcttcc 720
37 ctcaggaggc ccgtgggcag acaggggagc cggggctttg ccctgctgct gtcctctcgt 780
38 gtgatgaccc tattgagtat cagtagccac tactccccct gcctggcccc gagagcggct 840
39 ctgctgtcat ctcaagcagc ccctgtcccc agcccgtcca ccctggagtg gtcttcttca 900
40 gcctgtttcc ccagccacag gcctgctacg accccacga tgtgccgcaa gcactgtctc 960
41 accatcccgc acccaccaga caacagccag ggctggagtc caggccactt tcagctgctc 1020
42 ctttctccgt gcatcgtgtc tcttctctgc tttttctctc ttcccccact tctctttctc 1080
43 tgacccctcc cctccggtgc gtttcgtatc aaagctcctc aaaccccgtc ccccgtgtgt 1140
44 cctgctgtgt gcagctcgct ctttccttcc ttcctaagct atccaagggg atggacccag 1200
45 gctcgtgggg aggttccacc cttggatcca ggaagaaccc tccaccctgc ctcgtgggtg 1260
46 ggccaaaggc tacagggtgc ttcttcctct tcccccaccc ccactgtccc tcatgtgcca 1320
47 tgggcctgcc tccccagtga cctgcgaaag tggagcatcg aggtaggagg gaaacagcaa 1380
48 ccggggagtc ctcgagcctg gggctgccct acctctaccc attccccgac cagagctttg 1440
49 cccttgcttg gctgcccgcc tgcctctttg gggaactgag ctcagaggca ggtgcttcag 1500
50 agaaggaaac aaaatgaggg gtggcaggga taaaaagtca cctccattct ctacctccca 1560
51 tgcagcatga acacaatttc tctccacctg gctcccaaat ttaaagatgt ggaccaaggc 1620
52 ctgtgggtac tccaggggca aggagagccc tggggtcagt gacactgtca ggccaaccat 1680
53 gcactccaca aaggggagca tttggaaatg aaggactagc tcctatgtat caggttaaga 1740
```

```
54 gcaagggaga gctggccagg gacagcagtt tgcacagcag aggggaatgt agcaacagca 1800
55 gggcctccta ggccccatct tccatttctt aggtaagaag agcatttcct cagactccca 1860
56 ggcggaggac tgagcctagc cttcagcaac caaggttctc ctgggaccca aagtttatgg 1920
57 gagaagggca aagacttcat gggaagagag aaggaaggcc ctgggtagaa acgcttggtg 1980
58 ctgttctctt tggcctttaa gacaaagcgc tcatcttgcc ctctacctcc tgataggctt 2040
59 gagggtttgc caaccacact gtggctacag gtggagggaa gaggactcct tcctccagag 2100
60 tgctatgttc aggaagtttc tttaacccca tatggcccaa gagtagctcg taggaggccc 2160
61 tttaaagacg gaacaagtaa tttaccagtt ctactggggt tcctgcccac cgtcccaagg 2220
62 tgggcgaggc ctaggaagag ggtcattctt aagccacaca ttagctgcac tgcgtggctg 2280
63 cagccaaaac aaagaactgg gtgttgagta ttcatcaact aagaaccaaa atccagggca 2340
64 ctcatatgtg aaggataaga acctcacttc cttactcctc caaaaagaag tggggaaaga 2400
65 accatcaaac ctttcctcct gacttaccaa accaggaaaa cagcaggaga gggtggctca 2460
66 ggacttaggg acagggtata gcttagatgg tggaaagcaa aggagagcag gaagttgtaa 2520
67 atcactggct aatgagaaaa ggagacagct aactctagga tgaagctgtg actaggctgg 2580
68 agttgcttcc ttgaagatgg gactccttgg gtatcaagac ctatgccaca tcacactggg 2640
69 gctagggaag taggtgatgc cagccctcaa gtctgtcttc agccagggac ttgagaagtt 2700
70 atattgggca gtggctccaa tctgtggacc agtatttcag cttttccctga agatcaggca 2760
71 gggtgccatt cattgtcttt ctctcctagc cccctcagga aagaaggact atatttgtac 2820
72 tgtaccctag gggttctgga agggaaaaca tggaatcagg attctataga ctgataggcc 2880
73 ctatccacaa gggccatgac tgggaaaagg tatgggagca gaaggagaat tgggatttta 2940
74 gggtgcagct acgctcaccc taaacttttg gtggcctggg gcatgtcttg aggcccagac 3000
75 tgttaagcag gctctgctgg cctgtttact cgtcaccacc tctgcacctg ctgtcttgag 3060
76 actccatcca gccccaggca cgccacctgc tcctgagcct ccactatctc cctgtgacgg 3120
77 gtgaacttcg tgtactgtgt ctcgggtcca tatatgaatt gtgagcaggg ttcatctatt 3180
78 ttaaacacag atgtttacaa aataaagatt atttcaaacc accaaaaaaa aaaaaaaaaa 3240
79 aaaaaaaaaa aaaaaaa                                                3257
81 <210> SEQ ID NO: 2
82 <211> LENGTH: 212
83 <212> TYPE: PRT
84 <213> ORGANISM: Human
86 <400> SEQUENCE: 2
87 Met Ala Lys Gln Tyr Asp Val Leu Phe Arg Leu Leu Leu Ile Gly Asp
88 1               5                   10                  15
89 Ser Gly Val Gly Lys Thr Cys Leu Leu Cys Arg Phe Thr Asp Asn Glu
90              20                  25                  30
91 Phe His Ser Ser His Ile Ser Thr Ile Gly Val Asp Phe Lys Met Lys
92          35                  40                  45
93 Thr Ile Glu Val Asp Gly Ile Lys Val Arg Ile Gln Ile Trp Asp Thr
94      50                  55                  60
95 Ala Gly Gln Glu Arg Tyr Gln Thr Ile Thr Lys Gln Tyr Tyr Arg Arg
96 65                  70                  75                  80
97 Ala Gln Gly Ile Phe Leu Val Tyr Asp Ile Ser Ser Glu Arg Ser Tyr
98                  85                  90                  95
99 Gln His Ile Met Lys Trp Val Ser Asp Val Asp Glu Tyr Ala Pro Glu
100                 100                 105                 110
101 Gly Val Gln Lys Ile Leu Ile Gly Asn Lys Ala Asp Glu Glu Gln Lys
102             115                 120                 125
103 Arg Gln Val Gly Arg Glu Gln Gly Gln Gln Leu Ala Lys Glu Tyr Gly
104     130                 135                 140
```

```
105 Met Asp Phe Tyr Glu Thr Ser Ala Cys Thr Asn Leu Asn Ile Lys Glu
106 145                 150             155                 160
107 Ser Phe Thr Arg Leu Thr Glu Leu Val Leu Gln Ala His Arg Lys Glu
108                 165             170                 175
109 Leu Glu Gly Leu Arg Met Arg Ala Ser Asn Glu Leu Ala Leu Ala Glu
110                 180             185                 190
111 Leu Glu Glu Glu Glu Gly Lys Pro Glu Gly Pro Ala Asn Ser Ser Lys
112         195             200             205
113 Thr Cys Trp Cys
114     210
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 28770
119 <212> TYPE: DNA
120 <213> ORGANISM: Human
122 <400> SEQUENCE: 3
123 gctcaagatt gcacagctgg tgagtggtga cactgggact ggaacccaag tgtgccttac 60
124 tccagagccc ttggcatgca cctgaaaccc catgtaagcc cactgtggag acgcgcacct 120
125 cgaaataatg gaatccacta catcagttcc tttagctttc tgtgtaatca gagtagctag 180
126 caggctcggg atttcgcccc ccggcttttt tttttttttt ttttgagac agagtttttgc 240
127 tcttgttgcc caggctggag tgcaatggcg caatctcggc tcaccgcaac cttcgcctct 300
128 caggttcaag caattctcct gcctcagcct cccgagtagc tgggattaca ggcaccggcc 360
129 accacgccca gctaattttt ttatattttt agtagagatg gggtttcacc atgttggcca 420
130 ggctggtctt gaacttttcc cctcttatta taattcagac acttaacctg aaatatacct 480
131 tttcaaatga agtaaatggg cttaccactt tccttgacct actattgaaa aatacattct 540
132 ccatccaata ttcagcctga aaacaggtat gtacatatat acttttcatt gctttttttt 600
133 tttttttttt gagacaaggt ctccctctgt tgcgcaggct ggagtgcagt gtcatgatct 660
134 cggctcactg cagccttccc ctaatgggtt caagcaatcc tcccacctca gcctctcaag 720
135 cctgggatta caggcgagcc accgtgccca gctaattttt ttttattttt agtagagact 780
136 gggtttcact acattggcca ggctggtctc cagctcctga cctcaaagtg atctgcccgc 840
137 ctcagcctcc caaagtactg ggattacagg catgagccaa cgcgcctagc ctttcattgc 900
138 tttttaaaga cctaataggc tagactttgc tctccctcaa tactcgttgg tagggatagg 960
139 caattttctc aactccggag agcattcatt tgcctctctc cggtgctaac acattcagtg 1020
140 gtaggaaact ggatcttgaa caagggccat tcattctttg gtgccactgg ctataccaca 1080
141 gagaaattta ggggtctgaa acaatacatt ggtcacctgg gcacctatcc taagcacctt 1140
142 agagggaaaa cggagacttg cccgcacacc tctaaaggat tttgcacttg gagatgttct 1200
143 tatggccatc tatctttttca ccctggtgga ggccgtgaat aggcattttc cccatttaaa 1260
144 gaaaaaatgg ggacggggga gggccgtgac acagtcacac aggtaagggg cagccagatg 1320
145 gcagggaggg ggaattccac ccacactctc ggggactcat ggagacgggt gttcgaatcc 1380
146 agatcctgct caaggccttc ctacctcggg tgagcccagc tgaggtacca gccactgggg 1440
147 agcccggcca gatcctgcag atgcagggtg ccacggcggg cggaattacc ggcgccagac 1500
148 ttggggtggg atatggggag aagtggtgag cccggaaagc ggagcacggt agaagtgggc 1560
149 tgggtggggg ctcacctcaa ctcccccatt cggagcgtcc gcggaaaaac gaaaacgttc 1620
150 ccccgccccg ggcaggaagg ggttgggagg ggggctggc gccccgcccc agcgtcgcct 1680
151 gctcgatggg gtcccgctct cctgcgcgcg ctccccgccc cctctctacc ggggcggcgg 1740
152 cggcggcgca ggggaagggg cgggcagggg ccgccgccgg tttctcctcc caccgcctcg 1800
153 cgccagccca gccgagccga gccgagccga gcgggcgccg cgccgggctc ccgccgcagc 1860
154 cgcgcttccc ggcacccagc gagcgagtgg gcaggcgggc gggcgaggca gccgcggggg 1920
155 ccgggcccgg cgtcctcctc gccgcccgca gcgtccccgg gcgggcgcgg gccgcgatgg 1980
156 cagcggcgga gcagggctga gcccgctgcc cgcccgcagt tcccggcccc gctggcccca 2040
```

RAW SEQUENCE LISTING   DATE: 07/31/2002
PATENT APPLICATION: US/09/817,198A   TIME: 18:54:19

Input Set : A:\Pto.amc
Output Set: N:\CRF3\07312002\I817198A.raw

```
157 gtcatggcga agcagtacga tgtgctgttc cggctgctgc tgatcgggga ctccggggtg 2100
158 ggcaagacct gcctgctgtg ccgcttcacc gacaacgagt tccactcctc gcacatctcc 2160
159 accatcggta aggggcggtg gcccggggcg cccctccctc ccgcccgcg gccccttcc 2220
160 ccgccgcccc cgtccccagc tggggaggaa ttgccagccc ctccggctgg aggcggtggc 2280
161 gccggaggcc ggagtccggg ataaatctcg gggtgagcat aggttttggc aggtgagggt 2340
162 gtccctgctg cctgccgtcc ggaccagggg tggggtctcc cgcctcttgc cgggaagcct 2400
163 tccgtcccat caaaccgaga aaccggggt gaggggagct ggtgtaggcc tgggtacccc 2460
164 gagctggggt agcaagaatc gtagccgctg gaataacacc cccacacccc caggggagg 2520
165 ggaagtaaag cttctgctac ggaaaagggg gtcagggtgg agaccggagt cactgaggcg 2580
166 cccttggttc tgtggtgacc caaggtggag ccggcggggg gcgaggggggg aagagagga 2640
167 cgtacggagg ggccacaggg atcgagtttc cagggcagag ttgggaaggt aagccgcaag 2700
168 gtgggacacc tgggggagga cacagatagg gtgaggagcc cctgcgcctg ggaagaggag 2760
169 acatctgttc tgagggaggc taaagaggat ggaggagtgt caggaatacc tgcccagacc 2820
170 aaggggtcag aaggcaggca ggacccgcct gagggcatct ctcatctggc agtgctggag 2880
171 cctgtggtta gagggacaag acccggtggc atcccagaca gcactatgat ggggtcactt 2940
172 attctaggaa tgggtccatg gcctcccctc tgagacagtc agtctcccgc ttctaggctg 3000
173 tgaggggccc cctccctgag aagtctgagt agagggaatt tcatcctcag ctgctacccg 3060
174 ggtcagccct ggagtagcct ctgcattgcc caagcccctg gaaacacctg ctggctggct 3120
175 ggtcatccat ttggaatgct ctcctagaag tccctgctgc catcagggat gggcaccagc 3180
176 tctcagcttc ctcttgagga ttcatgtcca caccatcccc cctcccccca acacacattc 3240
177 cttgctgaga gagaagtagg agcagataga tacagccagg aggaacagaa ccttctggtt 3300
178 aagaagccag ctttattgtc caagagacct gagacctcac tgtggggcaa agcaaccttg 3360
179 aatattgcct aaacttctga gctttattta gtttctcatc tgtagaacgg gtataataat 3420
180 tgcacctacc tgccaagttg ttgtcaagat taaatgagat aacgattgtt aagtgcttag 3480
181 cacagccaga cacatggtga agctcgataa atgctgattg ttcttactgc tattgccatt 3540
182 atcattgagc ttttagggtc tcctctcttt gtttcaccaa cttgaagggt gaaacaacag 3600
183 gacttagggt caggaacag aacttgtccg tctttctcag aggagctgta aggccaactc 3660
184 ttaggaaacc caggagcttg ggctgagcca tggtttggat gagagacatt gcagaaagaa 3720
185 ggggagccta tagacactaa ggctttgtgc ctgccgggag gacttgggga agaggcaggt 3780
186 gcaggagaaa ggcatgggcg tgatggagga agtggcagag gaaccagatg gtgtatgagg 3840
187 acaggttgtg ggctcaggga caaagggcgg tgggttatcc cttaaggaaa ctaggagtgg 3900
188 ctatttttgg gagaggcctg gtgcttggaa ctactgagct atctccagag agctgtgggc 3960
189 tgcctgggag gccctggctt tggcctgaag agctgttgtt tgcacctgct ctcctagtcc 4020
190 cattccaagt cctataggtg acatggactt ttccctttga gggcttcatt caaccacctc 4080
191 atttcagaag ctctgggact cctgcttagt gctgtgggag gcagcctccc ctgggagaca 4140
192 cataccctcc tttttgaggg caccctctt tctaaaatac caggatggcc ctctgaggct 4200
193 cgtgctctcc ttaaagagag tccattgcct cacacctcta atcatccacc cttctccttg 4260
194 tcccttcccc ttgtaatctc ccttcttaga caccttctgc taataggtga acactaaata 4320
195 ggtcacaggg acttcctgaa accctccagg gcagaccact ttgggcacat aggtgaatca 4380
196 gtgaactgag taggggtgtc tctgcagcac tgtctccct caaggccctt ggtatattgg 4440
197 cctaaaacct aaagatggct cccagatttc ttcctccgct tctgacacc gggttccct 4500
198 ttctacagga cacagagga tctctagggt cccccttcc acaggacaca gaggactcta 4560
199 ggagtttgga ttccatggaa tagaaagaaa cctgtctttc ttcacaccag ccttttaaaa 4620
200 tctgccccac tgggtatctt aaatgctttc ttatttaaag cttattaagg gacttgggat 4680
201 tctcccttat cttgggcgtg tttttcagca ttaactaaaa cttaaaggaa agagttggat 4740
202 ggtcaagaaa agcttttttcc ttaagtgata tggacagttt ctcaaggagg tagaaggggc 4800
203 agccaggaga caaatcaagg agccaacgaa atgagtgcta ccaagtcata gtcattcgct 4860
204 tattttaaaa aaatgcgtgt cctgtatgcc aggctctgca ctgagaccga gagattccaa 4920
205 gatgaataat acctacagtc actgttctca aattgtgcat tacctaaaac acattacatg 4980
```

```
206 accatgctgg ccactgatcg aggcacctt cccaggggct tttttgtga attaagaaaa 5040
207 caaggtaatt caccagttat tgccaagata gtttggcttc ttggctcatg tggatatcac 5100
208 ctaggccagt acttttgtga tttactgtgt actccacttt aacggcctgc gatcttctag 5160
209 agaagaaccc gccagggagc agtgagaggc ctccctggta gactgagaca ctgactgtcc 5220
210 ctccccctat ccttttcgtc tttctggcca gcagaccagc aggtggccct gccactggct 5280
211 ctgccacagg catttccttt ctgtgcagct gtgctggcct ggctgggggt tggtgcgaag 5340
212 gggtccccaa aatactacct taaacaaatt aattgagcat tcactaccaa gctctgtgcc 5400
213 aggcatttta gagacatatt gcagtctacg ttttctgccc acagaagccc ataacctaga 5460
214 tggggaggca agacaaaggg aaaaacaaaa aacaaagagc tagtgccaaa atgagatatc 5520
215 tgaaagaact tggtgaatca ctcttcaaat gtaaaggatg gattatgatc attgcagtta 5580
216 ctcttaatga aggtctcaca gtgggtatca gaagctaaat tatgatgcaa gatgtaccat 5640
217 gaggcagccg gagaatggcg atggatggga tgggtgagtg ctattcccac gactccatgc 5700
218 tgtcggaggc tggggaagag agaggcccct gtggactaga accggcaggg aaggctgaag 5760
219 ctaggcctca gtgtgggctg ctcgtcagtt cctgcagcag aagggagcag atggagtaac 5820
220 atgagcagag ataacagagg tgggattgag taggtgtccg tggggctcta ggcagtttag 5880
221 atgcaacaga agggattctt caggaaagtg agaagattct tctgtttctc tctctgtctc 5940
222 ccaaattata agtgccttga tggtgcgacc aaatcttatt cctcattgtt tttatagtcc 6000
223 ctagtacagg gccaggcaga ttcaatgcct gttgttaaat taatgaatga atgcagggac 6060
224 cagttggcag agggcattga gagcctggcc aaggaggtgg aacatgagcc ttagcaatgg 6120
225 taggaggggt tttgagtagg gtactaatga ggttggctgg aagaaggggt taagacttga 6180
226 agcagggaga ctagtcaggg gctgcagtag tatcctgggc atgaaggaac ctctgaatgg 6240
227 cccctcaccc ccagtggtac caacaccaac ttccacacag tcagttgttc tactttccct 6300
228 ccagaatggg gagtggttca agccaatcaa cctggcaact tctgaaagaa tcttatggga 6360
229 cctgtgccat gaccaggtag ggagaagatg tcatacatgg acatctatgt tcaggggacc 6420
230 tttgaggacc tttctgcatg gtggccagga gtgagatgat gtaaaccaca aatggaaact 6480
231 gaagagactg ctcaggagtt gttggttttc ttttcttttc tatttttttt ttttgagac 6540
232 taggtttcac tctgtcaccc agtctggagt gtggtggtgg cacaatcacg gctcactgca 6600
233 gcctcgatct cctaaacgca atcctcccac ctcagcctct caagtagctg ggactacagg 6660
234 tgcatgccac cacattcagc taatgtttgt acgttttgta gagatggggt ttcactatgt 6720
235 tgaccaggct ggtctcgaac tcctggactc gtgatccacc agcctcagcc ttccaaaatg 6780
236 ctgggattat aggcgtgagc tacctcactc cctcaggagt tggttttctc cctcccatcc 6840
237 ttagtcttcc ctgagtagac ctgtcaccta gtccctggac cttttgtttt gaaagccacc 6900
238 ctccaggcta cactccttct gggtgaggag gagggtgatc tggttggaca ggttgggctg 6960
239 ctgtggcttc agggcacttt ctcaggctgg gttgctgctg ctatgtcacc tttctcaagg 7020
240 agttctgctg ggactggctt ggctgcctgt cttgactttg cttttgactg aggaggtggg 7080
241 agatggtgag ggaggggtg gggctagatc caagcctgga atggggtgac ctaacagaca 7140
242 ctggggcctg tgcttagaca ctaggatcct ggggtttgca ggtttctaga ctgagaggag 7200
243 ctggggggcaa atgcagtgtg acgttgtgag agggtcaggg ctgggtctgt gtcagccttc 7260
244 aggcagcctg agaccagtct ctacctactc tgttccctg gtacctagaa aggaagggaa 7320
245 ggtgagaagc aatgagcaga atggaaagag cccagattaa catgcacatt tcccatggcc 7380
246 ttactggccc tgtgaccttc agacactttg atgacatctt tgtgcttcgt ttctgcatct 7440
247 gtaaattgaa gatggtaaca gagtctttct taaaggttgt tgtgaagatt atagagccta 7500
248 gcgcatataa agcacttggc agagccctcg ataaaataat agctgctatc atattatcat 7560
249 tattattatt ttatttattt atttatttat ttttttttga gaccgagtat ctctctgtcg 7620
250 cccaggctgg agtgcagtgg cacaatctcg gctcactgca acctccatct cccgggttta 7680
251 agtgattctc ctgcctcagc ctcctaagta gctgggatta caggcaccca ccaccacacc 7740
252 cggctattat tattattcct agctataaga atgctgtaga gatgaataca ctgtcagtga 7800
253 gctaggaggt catcctgtgt atccatcact tgtgcactca gtcgttcagg cgctatttgc 7860
254 tgaacaccaa ctacatgcca ggtgccatgc taagatttgg ggacacagtg gtgaccaaaa 7920
```

VERIFICATION SUMMARY   DATE: 07/31/2002
PATENT APPLICATION: US/09/817,198A   TIME: 18:54:20

Input Set : A:\Pto.amc
Output Set: N:\CRF3\07312002\I817198A.raw

||||||||||||||||||||||||||||||||||||

1600

```
        RAW SEQUENCE LISTING          DATE: 07/31/2002
        PATENT APPLICATION:  US/09/817,198A    TIME: 18:41:31

        Input Set : A:\Pto.amc
        Output Set: N:\CRF3\07312002\I817198A.raw

    4 <110> APPLICANT: YE, Jane et al.
    6 <120> TITLE OF INVENTION: ISOLATED HUMAN RAS-LIKE PROTEINS,
    7        NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
    8        PROTEINS, AND USES THEREOF
   10 <130> FILE REFERENCE: CL001188
   12 <140> CURRENT APPLICATION NUMBER: 09/817,198A
   13 <141> CURRENT FILING DATE: 2001-03-27
   15 <160> NUMBER OF SEQ ID NOS: 33
   17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
```

Does Not Comply
Corrected Diskette Needed

partial listing of global error

ERRORED SEQUENCES

```
      676 <210> SEQ ID NO: 6
      677 <211> LENGTH: 4
      678 <212> TYPE: PRT
      679 <213> ORGANISM: Homo sapien
      681 <400> SEQUENCE: 6
E--> 682 Asn Ser Ser Lys 1
      684 <210> SEQ ID NO: 7
      685 <211> LENGTH: 4
      686 <212> TYPE: PRT
      687 <213> ORGANISM: Homo sapien
      689 <400> SEQUENCE: 7
E--> 690 Thr Asp Asn Glu 1
      692 <210> SEQ ID NO: 8
      693 <211> LENGTH: 4
      694 <212> TYPE: PRT
      695 <213> ORGANISM: Homo sapien
      697 <400> SEQUENCE: 8
E--> 698 Ser Asp Val Asp 1
      700 <210> SEQ ID NO: 9
      701 <211> LENGTH: 9
      702 <212> TYPE: PRT
      703 <213> ORGANISM: Homo sapien
      705 <400> SEQUENCE: 9
E--> 706 Lys Trp Val Ser Asp Val Asp Glu Tyr 1          5
      708 <210> SEQ ID NO: 10
      709 <211> LENGTH: 6
      710 <212> TYPE: PRT
      711 <213> ORGANISM: Homo sapien
      713 <400> SEQUENCE: 10
E--> 714 Gly Val Gly Lys Thr Cys 1          5
```

(global error) delete format marker and insert hard return

same error

same

same

same

RAW SEQUENCE LISTING   DATE: 07/31/2002
PATENT APPLICATION: US/09/817,198A   TIME: 18:41:32

Input Set : A:\Pto.amc
Output Set: N:\CRF3\07312002\I817198A.raw

```
    716 <210> SEQ ID NO: 11
    717 <211> LENGTH: 6
    718 <212> TYPE: PRT
    719 <213> ORGANISM: Homo sapien
    721 <400> SEQUENCE: 11
E--> 722 Gly Gln Gln Leu Ala Lys 1                    5
    724 <210> SEQ ID NO: 12
    725 <211> LENGTH: 8
    726 <212> TYPE: PRT
    727 <213> ORGANISM: Homo sapien
    729 <400> SEQUENCE: 12
E--> 730 Gly Asp Ser Gly Val Gly Lys Thr 1            5
    732 <210> SEQ ID NO: 13
    733 <211> LENGTH: 14
    734 <212> TYPE: PRT
    735 <213> ORGANISM: Homo sapien
    737 <400> SEQUENCE: 13
E--> 738
Leu Leu Leu Ile Gly Asp Ser Gly Val Gly Lys Thr Cys Leu 1      5                    10
    761 <210> SEQ ID NO: 15
    762 <211> LENGTH: 601
    763 <212> TYPE: DNA
    764 <213> ORGANISM: Homo sapien
    766 <400> SEQUENCE: 15
    767 tattaaggga cttgggattc tcccttatct tgggcgtgtt tttcagcatt aactaaaact    60
    768 taaaggaaag agttggatgg tcaagaaaag ctttttcctt aagtgatatg gacagtttct   120
    769 caaggaggta gaaggggcag ccaggagaca aatcaaggag ccaacgaaat gagtgctacc   180
    770 aagtcatagt cattcgctta tttttaaaaa atgcgtgtcc tgtatgccag gctctgcact   240
    771 gagaccgaga gattccaaga tgaataatac ctacagtcac tgttctcaaa ttgtgcatta   300
    772 yctaaaacac attacatgac catgctggcc actgatcgag gcacctttcc caggggcttt   360
    773 ttttgtgaat taagaaaaca aggtaattca ccagttattg ccaagatagt ttggcttctt   420
    774 ggctcatgtg gatatcacct aggccagtac ttttgtgatt tactgtgtac tccactttaa   480
E--> 775
cggcctgcga tcttctagag aagaacccgc cagggagcag tgagaggcct ccctggtaga   540ctgagacact gactgtccct
    777 <210> SEQ ID NO: 16
    778 <211> LENGTH: 601
    779 <212> TYPE: DNA
    780 <213> ORGANISM: Homo sapien
    782 <400> SEQUENCE: 16
    783 atgccaggtg ccatgctaag atttggggac acagtggtga ccaaaacaga cagaaaccaa    60
    784 ggagctggct tacattccaa gggagtgcat aggaagctgt gtttcatttc agtttctgct   120
    785 ctagtacccc cctttccctg gcagtgccag ggtctgagaa ggaagagtga ggtggtgagg   180
    786 aggtgtgaag cagtggggtg acctgagagg agaggatggg gtggctttgc ctcaaggctt   240
    787 gggcccctgc taggtgtcgc tctgcctcag gcctctgttt ctcctcctga cacaggcaca   300
    788 ractcggcct cccacccctt ccccaaggac atgaccttgg gaaggaacat atctgaagcc   360
    789 cgcggagggt ttccgctgct gtgcatctgt gccacagatc cgcagatgca cccacagctg   420
    790 ggagcaccgg ttcctcccgc ctacctgcac tccctggttt ctgttccttc ctcctcctcc   480
E--> 791
ttccttctcc ccgctcccca gacaggctgg tgatgagctt tataacatga aagctgatat      540ttggccatta tccttctacc
    793 <210> SEQ ID NO: 17
    794 <211> LENGTH: 601
    795 <212> TYPE: DNA
```